

## 10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION.--Lat 40°27'39", long 111°28'19", in SE<sup>1</sup>/4 NE<sup>1</sup>/4 NE<sup>1</sup>/4 sec. 22, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 3 ft above capacity elevation of Deer Creek Reservoir, 200 ft downstream from culvert on State Highway 113 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--50.1 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are poor. Small transbasin diversions from Strawberry River Basin drain into Daniels Creek. Flow also affected by irrigation diversions above station and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft<sup>3</sup>/s, May 23, 1995, gage height, 3.92 ft; no flow several days in Jul and Aug 1994, Sep 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft<sup>3</sup>/s, May 23, 24, gage height, 2.00 ft; minimum daily discharge, no flow, Jun 16, 22, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	0.63	e0.86	e2.0	e2.0	e3.2	3.1	1.5	0.44	0.79	2.5	2.4
2	0.33	0.64	0.88	e1.8	e2.0	e2.8	2.8	0.91	0.41	2.7	1.5	2.2
3	0.31	0.73	0.93	e1.8	e2.1	e2.7	2.1	1.1	0.33	2.6	3.1	1.6
4	0.31	0.76	0.88	e1.7	e2.1	e2.7	1.3	1.2	0.82	3.3	3.1	2.0
5	0.30	0.68	0.84	e1.7	e2.1	e3.1	1.1	0.56	0.21	2.0	2.5	1.9
6	0.17	0.69	0.75	e1.8	e2.2	e3.0	1.6	0.68	0.25	0.69	2.0	0.86
7	0.14	0.86	0.99	e2.2	e2.2	e3.8	1.1	0.61	0.39	1.0	0.98	1.5
8	0.62	0.80	e1.1	e2.2	e2.4	e2.7	0.60	1.0	0.95	1.9	1.5	2.0
9	1.4	0.78	e1.1	e2.5	e2.5	e2.2	0.56	1.5	0.91	1.6	2.1	1.9
10	1.1	0.76	e1.2	e2.2	e2.3	e2.8	0.49	1.5	0.80	3.5	1.3	1.1
11	1.1	0.75	e1.1	e2.2	e2.4	e2.8	0.33	1.3	0.48	4.9	2.0	0.30
12	1.2	0.78	e1.1	e2.1	e2.5	e2.8	0.38	1.3	0.44	4.6	2.0	1.3
13	1.4	0.86	e1.2	e2.5	e2.5	e2.9	0.42	0.70	0.16	3.5	2.1	1.9
14	1.4	0.88	e1.3	e2.3	e2.3	e2.2	0.41	0.58	0.05	4.8	1.9	1.8
15	0.45	0.92	e1.4	e2.4	e2.6	e1.9	0.49	1.3	0.01	2.8	2.7	1.8
16	0.08	0.92	e1.0	e2.2	e2.5	e1.9	0.59	2.5	0.00	1.8	2.9	1.7
17	0.09	0.95	e1.3	e1.9	e3.4	e2.0	0.86	2.1	0.10	2.2	1.1	1.8
18	0.13	0.98	e1.6	e2.0	e3.5	e1.9	1.5	1.5	0.07	4.2	0.96	1.3
19	0.13	0.96	e1.5	e1.7	e3.3	e1.9	1.3	0.86	0.12	4.0	2.6	1.2
20	0.27	1.00	e1.5	e2.2	e3.1	e2.2	1.1	0.46	0.11	3.9	2.9	1.5
21	0.46	1.1	e1.6	e2.3	e3.0	e2.2	0.62	0.45	0.07	3.2	3.5	1.4
22	0.61	1.1	e1.6	e2.1	e3.2	2.3	0.28	1.3	0.00	3.4	3.1	1.4
23	0.68	1.0	e1.3	e1.9	e3.4	2.4	0.21	5.6	0.00	2.7	2.9	1.3
24	0.48	0.99	e1.3	e1.8	e3.7	2.4	0.61	4.9	0.12	1.6	4.1	1.3
25	0.47	1.1	e1.3	e2.4	e3.5	2.4	1.1	4.0	0.16	1.3	1.8	1.3
26	0.42	0.98	e1.2	e2.9	e3.0	2.3	1.1	3.9	0.11	1.5	1.2	1.6
27	0.46	1.0	e1.8	e3.0	e3.4	3.5	1.3	3.9	0.08	1.5	2.7	1.6
28	0.54	e0.88	e1.8	e2.6	e3.2	3.8	1.5	2.2	0.17	1.8	2.6	1.5
29	0.56	0.90	e2.0	e2.2	---	3.8	1.8	2.2	0.33	2.8	3.0	1.5
30	0.59	0.87	e2.1	e1.6	---	3.6	1.7	1.7	0.09	2.7	4.2	1.8
31	0.71	---	e2.1	e1.9	---	3.5	---	1.5	---	2.7	4.2	---
TOTAL	17.29	26.25	40.63	66.1	76.4	83.7	32.35	54.81	8.18	81.98	75.04	46.76
MEAN	0.558	0.875	1.311	2.132	2.729	2.700	1.078	1.768	0.273	2.645	2.421	1.559
MAX	1.4	1.1	2.1	3.0	3.7	3.8	3.1	5.6	0.95	4.9	4.2	2.4
MIN	0.08	0.63	0.75	1.6	2.0	1.9	0.21	0.45	0.00	0.69	0.96	0.30
AC-FT	34	52	81	131	152	166	64	109	16	163	149	93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

MEAN	5.942	3.895	3.031	2.754	2.899	2.680	11.96	47.50	29.66	6.572	7.712	6.694
MAX	9.38	10.3	8.65	5.00	5.07	5.61	32.1	99.9	110	16.0	21.1	13.6
(WY)	2001	2000	2000	1994	1994	1997	1997	1997	1995	1995	1999	1999
MIN	0.56	0.88	1.09	0.96	0.77	0.76	0.82	0.97	0.27	0.22	0.21	0.79
(WY)	2002	2002	1999	2001	2001	1999	2001	2001	2002	2001	2001	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

ANNUAL TOTAL	275.06	609.49	10.98
ANNUAL MEAN	0.754	1.670	21.2
HIGHEST ANNUAL MEAN			1995
LOWEST ANNUAL MEAN			2002
HIGHEST DAILY MEAN	4.9	May 2	244
LOWEST DAILY MEAN	0.05	Jun 24	0.00
ANNUAL SEVEN-DAY MINIMUM	0.13	Jun 24	Jul 23 1994
ANNUAL RUNOFF (AC-FT)	546	1210	0.01
10 PERCENT EXCEEDS	1.3	3.1	Jul 19 1994
50 PERCENT EXCEEDS	0.70	1.5	26
90 PERCENT EXCEEDS	0.17	0.36	3.5
			0.68

e Estimated